UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

FIRST AMENDMENT TO THE MARCH 1979 CLASSIFICATION AND CORRELATION OF THE SOILS OF PUTNAM COUNTY, INDIANA

OCTOBER 2005

This amendment results from digitizing the Putnam County Soil Survey, the update of the NASIS database, and conforming to the Keys to Soil Taxonomy, 9th Edition, 2003.

AMENDMENT NO. 1

Pages 4 and 5, Soil Correlation – Add the following map units:

Field symbols	Field map unit name	Publication symbol	Approved map unit name
Omz	Orthents, earthen dam	Omz	Orthents, earthen dam
W	Water	W	Water
Water	Water	W	Water

The "Omz – Orthents, earthen dam" map unit is added for earthen dams more than 1.43 acres in size. These areas were labeled as large dams in the published soil survey.

Page 8 – Replace the 37A dated June 1978, with the attached Indiana Official 37A for Compilation, Digitizing, and DMF, Revised June 30, 2004.

Only the following standard landform and miscellaneous surface features will be shown on the legend and placed on the digitized soil maps:

Feature	Name	Description
ESB	Escarpment, bedrock	A relatively continuous and steep slope or cliff, which generally is produced by erosion or faulting, that breaks the general continuity of more gently sloping land surfaces. Exposed material is hard or soft bedrock.
ESO	Escarpment, nonbedrock	A relatively continuous and steep slope or cliff, which generally is produced by erosion but can be produced by faulting, that breaks the continuity of more gently sloping land surfaces. Exposed earthy material is nonsoil or very shallow soil.
GUL	Gully	A small channel with steep sides cut by running water through which water ordinarily runs only after a rain, or after ice or snow melts. It generally is an obstacle to wheeled vehicles and is too deep to be obliterated by ordinary tillage.

Feature	Name	Description
MPI	Mine or quarry	An open excavation from which soil and underlying material is removed and bedrock is exposed. Also used to denote surface openings to underground mines. Typically 0.2 to 2 acres.
ROC	Rock outcrop	An exposure of bedrock at the surface of the earth. Not used where the named soils of the surrounding map units are shallow over bedrock or where “Rock outcrop” is a named component of the map unit. Typically 0.2 to 2 acres.
SAN	Sandy Spot	A spot where the surface layer is loamy fine sand or coarser in areas where the surface layer of the named soils in the surrounding map unit is very fine sandy loam or finer. Typically 0.2 to 2 acres.
ERO	Severely eroded spot	An area where on the average 75 percent or more of the original surface layer has been lost because of accelerated erosion. Not used in map units that are named severely eroded, very severely eroded, or gullied. Typically 0.2 to 2 acres.
SLP	Short, steep slope	Narrow soil area that has slopes that are at least two slope classes steeper than the slope class of the surrounding map unit.
SNK	Sinkhole	A closed depression formed either by solution of the surficial rock, or by collapse of underlying caves. Typically 0.2 to 2 acres.
WET	Wet spot	A somewhat poorly drained to very poorly drained area that is at least two drainage classes wetter than the named soils in the surrounding map unit. Typically 0.2 to 2 acres.

Only the following ad hoc features will be shown on the legend and placed on the digitized soil maps:

Label	**Symbol ID**	**Name**	**Description**
MUC	30	Muck spot	An area within a poorly drained or very poorly drained soil that has a histic epipedon or where the surface is organic. The spot symbol is used only in map units consisting of mineral soil. Typically 0.2 to 2 acres.
UWT	44	Unclassified water	Small, natural or man-made lake, pond, or pit that contains water, of an unspecified nature, most of the year. Typically 0.2 to 2 acres.

Indiana Official 37A For
Compilation, Digitizing, and DMF
Revised June 30, 2004

Soil Survey Area: PUTNAM COUNTY

State: Indiana

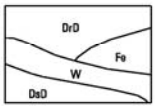
FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

Date: SEPTEMBER 2005

SOIL SURVEY FEATURES

SOIL DELINEATIONS AND LABELS



STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES

- Bedrock escarpment
- Nonbedrock escarpment
- Gully
- Levee
- Short steep slope
- Blowout
- Borrow pit
- Clay spot
- Closed depression
- Gravel pit
- Gravelly spot
- Landfill
- Marsh or swamp
- Mine or quarry
- Rock outcrop
- Sandy spot
- Severely eroded spot
- Sinkhole
- Slide or slip
- Spoil area
- Stony spot
- Very stony spot
- Wet spot

AD HOC FEATURES (Describe on back)

LABEL	SYMBOL ID	SYMBOL	LABEL	SYMBOL ID	SYMBOL
DCS	1		CRO	23	
DKS	2		MIA	24	
OVW	3		CGM	25	
VWS	4		HIL	26	
EAS	5			27	
MAS	6		SID	28	
SAS	7			29	
CAF	8		MUC	30	
CAL	9			31	
SLR	10			32	
DUM	11			33	
BRV	12			34	
BRM	13		MRL	35	
BRD	14			36	
OBR	15			37	
SSR	16		SAM	38	
LBR	17			39	
WDP	18		VSE	40	
SBR	19			41	
COB	20			42	
CNS	21			43	
FES	22		UMT	44	

CULTURAL FEATURES (Optional)

BOUNDARIES

- National, state or province
- County or parish
- Minor civil division
- Reservation (Military)
- Land grant (Optional)
- Field sheet matchline and neatline
- Public Land Survey System Section Corner Tics

GEOGRAPHIC COORDINATE TICK

ROAD EMBLEMS

- Interstate
- Federal
- State

LOCATED OBJECTS

- Airport (Label only) — Davis Airport or Airstrip

HYDROGRAPHIC FEATURES (Optional)

- Drainage end (indicates direction of flow)
- Unclassified stream

Page 9, Conversion Legend – Add the following:

Field symbol	Publication symbol
Omz (shown as large dams)	Omz
Water, W	W

Pages 16 and 17-- Replace the Classification of the Soils table with the following, amended per Soil Taxonomy 9th edition:

Putnam County, Indiana
Classification of the Soils
(An asterisk in the first column indicates a taxadjunct to the series.)

Soil name	Family or higher taxonomic class
Alford	Fine-silty, mixed, superactive, mesic Ultic Hapludalfs
*Alvin	Coarse-loamy, mixed, superactive, mesic Ultic Hapludalfs
*Ava	Fine-silty, mixed, active, mesic Aquic Fragiudalfs
Ava	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Bartle	Fine-silty, mixed, active, mesic Aeric Fragiaqualfs
Birds	Fine-silty, mixed, superactive, nonacid, mesic Typic Fluvaquents
Chagrin	Fine-loamy, mixed, active, mesic Dystric Fluventic Eutrudepts
Chetwynd	Fine-loamy, mixed, semiactive, mesic Typic Hapludults
Cincinnati	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Corydon	Clayey, mixed, superactive, mesic Lithic Argiudolls
Elkinsville	Fine-silty, mixed, active, mesic Ultic Hapludalfs
Evansville	Fine-silty, mixed, superactive, nonacid, mesic Typic Endoaquepts
Fincastle	Fine-silty, mixed, superactive, mesic Aeric Epiaqualfs
Fox	Fine-loamy over sandy or sandy-skeletal, mixed, superactive, mesic Typic Hapludalfs
Gilpin	Fine-loamy, mixed, active, mesic Typic Hapludults
*Grayford	Fine-silty, mixed, active, mesic Ultic Hapludalfs
Haymond	Coarse-silty, mixed, superactive, mesic Dystric Fluventic Eutrudepts
Hennepin	Fine-loamy, mixed, active, mesic Typic Eutrudepts
Hickory	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Hoosierville	Fine-silty, mixed, superactive, mesic Typic Epiaqualfs
Iva	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
*Martinsville	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Miami	Fine-loamy, mixed, active, mesic Oxyaquic Hapludalfs
Muren	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs
Ockley	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Orthents	Orthents
Parke	Fine-silty, mixed, active, mesic Ultic Hapludalfs
Ragsdale	Fine-silty, mixed, superactive, mesic Typic Argiaquolls
Reesville	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs
Rensselaer	Fine-loamy, mixed, superactive, mesic Typic Argiaquolls

Putnam County, Indiana Classification of the Soils - continued

Soil name	Family or higher taxonomic class
Russell	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Shoals	Fine-loamy, mixed, superactive, nonacid, mesic Fluventic Endoaquepts
Stonelick	Coarse-loamy, mixed, superactive, calcareous, mesic Typic Udifluvents
Udorthents	Udorthents
Wakeland	Coarse-silty, mixed, superactive, nonacid, mesic Aeric Fluvaquents
Weikert	Loamy-skeletal, mixed, active, mesic Lithic Dystrudepts
Whitaker	Fine-loamy, mixed, active, mesic Aeric Endoaqualfs
Xenia	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs

*Ava taxadjunct is for map unit AvB

Approval Signatures and Date

TRAVIS NEELY	Date	JANE E. HARDISTY	Date
State Soil Scientist/MLRA Leader		State Conservationist	
Indianapolis, Indiana		Indianapolis, Indiana	